

105.12 - Respirable Materials (solid form)

SRMs 1878a and 1879a are crystalline silica materials with particles in the respirable range. They are intended for use in determining, by x-ray diffraction, the levels of respirable silica in an industrial atmosphere according to National Institute for Occupational Safety and Health ([NIOSH](#)) Analytical Method 7500 or equivalent methods. **NOTE:** These SRMs are not certified for particle size.

Technical Contact: james.cline@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	1866b	1877	1878a	1879a
Description	Common Commercial Asbestos	Beryllium Oxide Powder	Respirable Alpha Quartz	Respirable Cristobalite
Unit of Issue	(set (3))	(20 g)	(5 g)	(5 g)
Component (mass fraction, in %)	1 - 3g each		93.7 ± 0.21	88.2 ± 0.4